Timothy Delille

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Education

University of California, Berkeley, Master of Engineering in *Electrical Engineering and Computer Sciences* (EECS) with a specialization in **Data Science and Systems** (Fung Excellence Fellow) 2019-2020
- Coursework: *Principles of Data Science, Intro to Machine Learning, Applied Stochastic Processes, Convex Optimization, Intro to Financial Engineering*
- Graduate Student Researcher for Prof. Alison Post: collecting and extracting data about the adoption of smart city technologies in California

Arts et Métiers ParisTech, Combined BSc and MSc in *Mechanical and Industrial Engineering* • 3.93/4.0 GPA 2017-2019
- One of France's top-ranking Grandes Écoles for Engineering (combined Bachelor of Science and Master of Science) *Paris*
- Louis Magne Fellow *Lille*
- Coursework includes *Advanced Controls Systems, Optimization, Collaborative Robotics, Bond Graph Modeling*

Lycée Privé Sainte-Geneviève, *Versailles*, Preparatory program •3.81/4.0 GPA 2015-2017
- Two years of intensive preparation in France's top-ranking school leading to nationwide entrance examinations to the Grandes Écoles for scientific studies *Versailles*
- Coursework includes *Advanced Mathematics, Physics* and *Industrial Sciences*

ABIBAC Certificate, *Lycée Richelieu* 2012-2015
- Combination of the German Abitur and the French scientific Baccalaureat with concentrations in mathematics and engineering sciences
- Awarded with highest honors

Skills

- Python (*TensorFlow*, *Keras*, *OpenCV, Pandas, etc…*), R, SQL I.T. Skills
- Web design (HTML/CSS/Bootstrap, JavaScript/jQuery, PHP, MySQL)

French (mother tongue) • English (TOEFL: 111/120) • German (fully operational): Abitur (= A levels) • Russian (beginner) Languages

Internship Experience

Eurovia Management, *Paris region*: Data Scientist Intern May – Aug 2019
- Centralized performance metrics from connected machines in order to optimize construction processes
- Co-founded *Elena*, a start-up using deep learning algorithms on embedded devices (NVIDIA's Jetson Nano GPU) whose aim is to detect contexts from video streams and predict dangerous situations on building sites

Institute of Transportation Studies, *University of California, Berkeley*: Research assistant & web developer for Director, Prof. Alexandre Bayen Jul – Sept 2018
- Developed a website that uses crowd-sourcing to gather knowledge about the impact of navigational apps on communities
- Developed *ACCESS Magazine's* new website, edited by UCLA and UC Berkeley Faculty members
- Developed the EE290O Flow-course website (*Deep multi-agent reinforcement learning with applications to autonomous traffic)*

Safran Electronics & Defense, *Paris region*: Supply Chain Intern Jun – Jul 2018
- Used data analytics and flow management methods to optimize processes used on the *Rafale* production line

Project Work

Capstone Project *AI and Blockchain* under the supervision of Prof. Dawn Song 2019-2020
- Applying secure computation and blockchains to train machine learning models on large-scale datasets while preserving data privacy

Dassault UAV Challenge under the supervision of Prof. Nazih Mechbal and Prof. Marc Rébillat 2018-2019
- Competition between France's top engineering schools, whose aim is to program a drone to deliver packages and detect targets autonomously
- In charge of a team composed of 4 students
- Successfully trained object detection neural networks (SSD, YOLOv3) using computer generated training images

CREDA under the supervision of Prof. Patrice Dubois 2018-2019
- One of the seven students selected to be part of a special start-up creation program
- Designed a web app whose aim is to centralize the sale of instrumental rights
- Used data-analytics and clustering algorithms to help e-commerce businesses develop marketing strategies and target better audiences

Safran Aircraft Engines under the supervision of Prof. Jean-Paul Decocq 2017-2018
- Used collaborative robotics and optimization to design a turbine's assembly process

Research Work (TIPE) 2015-2017
- Worked on accurately processing three dimensional differential equations while maintaining a well-conditioned problem for heat transfer simulations

Achievements

- **Hackathon First Prize**: #HackTheRoad hackathon organized by **Eurovia:** using A.I. to predict accidents and threats on building sites March 2019
- Member of the Berkeley Investment Group 2019-2020
- *Clevermate* and *Complétude* instructor for sophomores in applied mathematics 2017-2019
- Organization of the ENSAM gala, *Grand Gala des Arts et Métiers de Lille* 2017 / 2018